









Type overview	
Туре	DN
B262	65

Technical data

Functional data

Valve size	2.5" [65]
Fluid	chilled or hot water, up to 60% glycol
Fluid Temp Range (water)	0212°F [-18100°C]
Body Pressure Rating	400 psi
Close-off pressure Δps	100 psi
Flow characteristic	equal percentage
Servicing	maintenance-free
Flow Pattern	2-way
Leakage rate	0% for A – AB
Controllable flow range	75°
Cv	75
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB
	Cv
Valve body	Nickel-plated brass body
Stem	stainless steel

Materials

Valve body	Nickel-plated brass body
Stem	stainless steel
Stem seal	EPDM (lubricated)
Seat	PTFE
Characterized disc	TEFZEL®
Pipe connection	NPT female ends
O-ring	EPDM (lubricated)
Ball	stainless steel
Non-Spring	ARB(X)

AFRB(X)



Suitable actuators

Spring

WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

Product features

Safety notes

Application

This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.



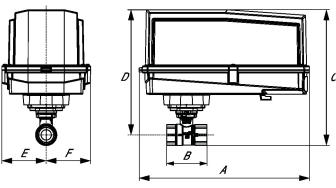
Flow/Mounting details

Α AB $A \rightarrow AB 100\%$ $A \to AB \; 100\%$

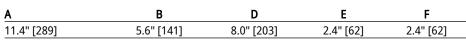
Two-way valves should be installed with the disc upstream.

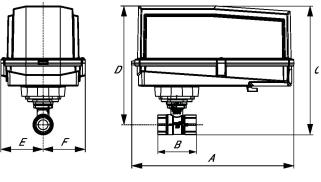
	disc upstream.	$A \rightarrow AD$	10076	A 7 AD 100	70		
Dimensions							
Туре					DN		
Type B262					65		
	ARB, ARX	H		A	c		
		A 10.1" [257] 5	B (5.6" [141] 8.0"		E 52] 2.8" [71]	F 2.8" [71]	H1 1.9" [48]
	AFRB, AFRX						
		A 11.5" [293]	B 5.6" [141]	C	D 6.6" [168] 2.	0" [51]	7 0" [51]
	ARQB, ARQX	HI E F	7 D H2		c	.0" [51]	2.0" [51]
		A E	3 C	D	E F	H1	H2
		9.9" [251] 4.2"	[107] 8.1" [206]	6.1" [155] 2	.3" [58] 2.3" [58]	0.8" [20]	0.6" [15]





AFRB N4, AFRX N4





ARB N4, ARX N4, NRB N4, NRX N4

A	В	D	E	F
11.4" [289]	5.6" [141]	8.0" [203]	3.1" [80]	3.1" [80]

NEMA 4, Modulating Control, Non-Spring Return, Direct Coupled, 24 V, Multi-Function Technology®







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Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	3.5 W
	Power consumption in rest position	1.3 W
	Transformer sizing	6 VA (class 2 power source)
	Electrical Connection	Terminal blocks
	Overload Protection	electronic thoughout 090° rotation
Functional data	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	Input Impedance	100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for PWM, On/Off and Floating point
	Operating range Y variable	Start point 0.530 V End point 2.532 V
	Options positioning signal	variable (VDC, on/off, floating point)
	Position feedback U	210 V
	Position feedback U note	Max. 0.5 mA
	Position feedback U variable	VDC variable
	Direction of motion motor	selectable with switch 0/1
	Manual override	under cover
	Angle of rotation	90°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	150 s / 90°
	Running time motor variable	90150 s
	Noise level, motor	45 dB(A)
	Position indication	pointer
Safety data	Degree of protection IEC/EN	IP66/67
	Degree of protection NEMA/UL	NEMA 4X
	Enclosure	UL Enclosure Type 4X
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU
	Quality Standard	ISO 9001
	Ambient temperature	-22122°F [-3050°C]
	Ambient temperature note	-4050°C for actuator with integrated heating
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	Max. 100% RH
	Servicing	maintenance-free
Materials	Housing material	Die cast aluminium and plastic casing



Footnotes †Rated Impulse Voltage 800V, Type of action 1, Control Pollution Degree 4.

Accessories		
Gateways	Description	Туре
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to Modbus RTU	UK24MOD
	Gateway MP to LonWorks	UK24LON
Electrical accessories	Description	Туре
	Battery backup system, for non-spring return models	NSV24 US
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT
	Service Tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US
Service tools	Description	Туре
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection	ZK4-GEN
	Service Tool, with ZIP-USB function, for programmable and	ZTH US

Electrical installation

INSTALLATION NOTES

devices

A Provide overload protection and disconnect as required.

Actuators may be connected in parallel. Power consumption and input impedance must be observed.

Actuators may also be powered by DC 24 V.

Only connect common to negative (-) leg of control circuits.

 Λ A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

communicative Belimo actuators, VAV controller and HVAC performance

For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.

🗚 IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

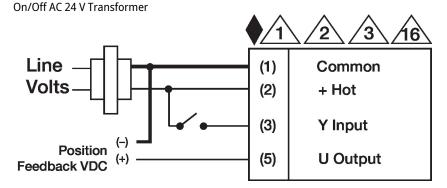
Actuators are provided with a numbered screw terminal strip instead of a cable.

Meets cULus requirements without the need of an electrical ground connection.

\ Warning! Live electrical components!

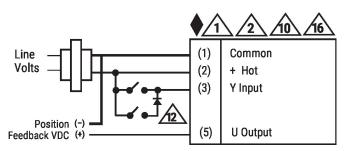
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

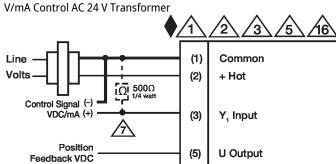
Wiring diagrams

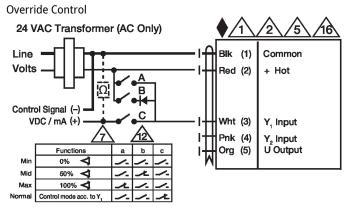












Dimensions